

What is claimed is:

1. A method for determining an interior temperature based on a value for incident sun radiation recorded with a photo sensor and/or a surface temperature at a measuring area recorded with a temperature sensor,

wherein air circulation in front of the measuring area is determined, which, is weighted as a variable heat-transmission resistance, and is entered as a correction value into the recorded incident sun radiation,

wherein in a first adaptive measurement with the temperature sensor, the reaction at the temperature sensor at zero air circulation is taken and recorded, a heat element is provided with a signal, which is recorded as a step response on the sensor, and

wherein from the difference of the step response as compared to an adaptively determined reaction, the presence or absence of air flow is determined.
2. The method according to claim 1, wherein with air circulation present, the step response on the temperature sensor shows a smaller impulse height and impulse width than a step response when no air circulation is present.
3. An arrangement for executing the method according to claim 1, comprising a sensor for measuring the incident sun radiation and/or at least one sensor for determining the surface temperature at the measuring area, and a heat element in close proximity of and thermally coupled to the temperature sensor.
4. A temperature sensor for determining the interior temperature of a passenger area, comprising:

at least one sensor for determining the surface temperature of a measuring area, and

a heat element, which is thermally coupled with the at least one sensor.

5. The temperature sensor according to claim 4, wherein the thermal coupling is achieved via a damping segment.
6. The temperature sensor according to claim 4, wherein the damping segment is a foil with conduction tracks attached thereto.
7. The temperature sensor according to one of claim 4,  
wherein the temperature sensor is located in a housing and is arranged in the upper part of a foil, which serves as a substrate for the temperature sensor, and into which are injected at least the sensor for determining the surface temperature of the measuring area and the heat element, and  
wherein the housing is closed off towards the bottom with a casting compound, with contact pins leading through it.
8. The temperature sensor according to claim 7, wherein the housing is made of infrared-permeable material, at least above an additional sensor for measuring the incident sun radiation, which is attached to the foil.
9. The temperature sensor according to one of claims 4,  
wherein the temperature sensor is located in a housing,  
wherein the foil is flexible and is folded and inserted into the housing, together with the attached sensor for determining the surface temperature of the measuring area and the heat element, and  
wherein foil tracks lead from the housing.
10. The temperature sensor according to claim 9, wherein an additional sensor for determining the self-heating of the control element is attached to the foil in the housing, whereby the housing is open in this area.
11. The temperature sensor according to claims 9, wherein the sensor measuring incident sun radiation is attached to the foil, and that the housing has an infrared-light permeable area around the sensor.

12. The temperature sensor according to claim 11, wherein when the sensor is arranged below the foil, the foil is made of infrared-light permeable material in this area.
13. The temperature sensor according to claim 7, wherein the temperature sensor is manufactured utilizing MID technology.
14. The temperature sensor according to claim 9, wherein the temperature sensor is manufactured utilizing foil injection technology.
15. The temperature sensor according to claim 1, wherein the heat element is a NTC.
16. The temperature sensor according to claim 1, wherein the interior temperature is the interior temperature of a motor vehicle.
17. A method for determining and adjusting the temperature of an interior of a vehicle, the method comprising:
  - measuring and storing a control value, the control value being representative of the temperature of a control element surface that is provided in the interior of the vehicle and measured with a temperature sensor when there is no air movement within the interior of the vehicle;
  - providing a pulsed signal to a heat element so that the temperature sensor exhibits a temperature change;
  - measuring a step response of the temperature sensor;
  - comparing the step response of the temperature sensor with the control value;
  - determining a damping amount of the heat element on the basis of the comparison of the step response of the temperature sensor with the control value;
  - determining a presence or absence of air flow in the interior of the

vehicle on the basis of a comparison of the damping amount with a predetermined value; and

adjusting a control of a heating and air-conditioning system of a vehicle on the basis of the determination of the presence or absence of air flow in the interior of the vehicle.